

**UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND
CERTIFICATE OF TYPE APPROVAL**

(EC Certificate of Type Examination-96/98/EC Directive Module B)

Certificate Number: 164.112/1121/WCL MED0401TE

Applicant:- **F Ball and Co. Ltd.**

Manufacturer:- F Ball and Co. Ltd.

Address:- **Station Road, Cheddleton, Leek,
Staffordshire, ST13 7RS, UK**

Station Road, Cheddleton, Leek,
Staffordshire, ST13 7RS, UK

This is to certify that the applicant has submitted details of an adhesive, Item No. A.1/3.18e, having low flame spread and low smoke and toxic fume emissions, known and designated as:-

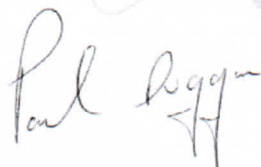
"Styccobond F46"

Having the technical specification given in the schedule of equipment on this certificate which has been tested and complies with the recommended criteria given in the following methods, published by the International Maritime Organisation, and which are contained in the relevant parts of the International Code for Application of Fire Test Procedures (FTP Code) namely:-

- IMO Resolution MSC 61(67): Annex 1: Part 5 and Annex 2.
- IMO Resolution MSC 61(67): Annex 1: Part 2 and Annex 2.
- IMO MSC/Circ.1120

This certificate is issued on behalf of the Maritime and Coastguard Agency (MCA). The system complies with the relevant international testing standards under which legislation (The Merchant Shipping Marine Equipment) Regulations 1999 and also the Marine Equipment Directive 96/98 as amended, the certificate is issued.

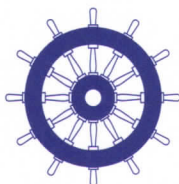
The manufacturer is allowed to affix the U.S. Coast Guard approval number 164.112/1121/WCL MED0401 as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004.



Paul Duggan
Manager
Warrington Certification Limited
Holmesfield Road
Warrington WA1 2DS

Date of Issue: 28th May 2014
This certificate is valid until: 27th May 2019

**This certificate is not valid for equipment, the design or manufacture of which,
has been varied or modified from the specimens tested.**



Certificate of Type Approval Schedule of Equipment

The applicant declared that the following comprises an accurate description of the system type to which this certificate applies.

General description		An adhesive (product reference "Styccobond F46"), applied to one face of a 20mm thick calcium silicate based board
Adhesive	Generic type	An acrylic based, pressure sensitive, flooring adhesive
	Trade name	"Styccobond F 46"
	Name of manufacturer	F Ball and Co. Ltd.
	Colour	"White"
	Specific gravity	1.0
	Application rate	310 to 330g per m ²
	Application method	1.5mm by 5mm 'V' notched trowel
	Flame retardant details	The sponsor of the test has confirmed that no flame retardant additives were utilised in the production of the product
Substrate	Trade name	"Glasroc S"
	Generic type	Calcium silicate based board which stated by the sponsor to comply with the requirements specified in Paragraph 3.3 of IMO Resolution A.653 (16) and corresponds to the standard substrate that should be used for assessing the performance of adhesives, as specified in Paragraph 3.1 of MSC/Circ.916: 4 th June 1999.
	Supplier	Kitsons Limited
	Thickness	20mm
	Density	Between 700 and 900kg/m ³
	Flame retardant details	The substrate is inherently flame retardant
	Preparation details	None
Brief description of manufacturing process		The sponsor of the test was unwilling to provide this information

The under noted documents have been approved for compliance with the relevant requirements of International Conventions and European Union Legislation for the EC Type examination of Marine Equipment for use on Ships Registered in the European Economic Area.

Approved Documents - Test Reports

- WF 153802, dated 24/04/06, Surface Flammability test to IMO Resolution MSC 61(67) Annex 1: Part 5.
- WF 153924, dated 12/05/06, Smoke and toxicity test to IMO Resolution MSC 61(67) Annex 1: Part 2.

Warrington Certification Limited
Holmesfield Road
Warrington
WA1 2DS

Certificate Number: 164.112/1121/WCL MED0400TE

EUROPEAN COMMUNITY CERTIFICATE OF CONFORMITY

Issued in accordance with the

MARINE EQUIPMENT DIRECTIVE

Certificate No. 164.112/1121/WCL MED0401QA

This is to certify that in compliance with the Council Directive 96/98/EC of 20 December 1996 on marine equipment as amended, the product detailed below has been tested in accordance with the appropriate international instruments contained therein.

This certificate is issued to:

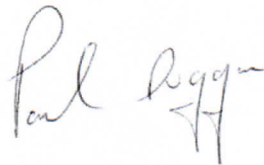
**F Ball and Co. Ltd.
Station Road, Cheddleton, Leek,
Staffordshire, ST13 7RS, UK**

To certify also that a Surveyor representing Warrington Certification Limited did at their request attend at the works of F Ball and Co Ltd. on the 8th January 2014 and annually thereafter for the purpose of examining the production and factory production control systems for this product.

Product Description - Acrylic based pressure sensitive adhesive
Product Type - Item Number A.1/3.18e Adhesive
Reference - "Styccobond F46"
Modules used - (D)

The particulars of which are given on this certificate, to verify compliance with the requirements of the International Convention for the Safety of Life at Sea (SOLAS) 1974 Regulation II-2/3.40.6, II-2/9.2.2.3.2 and II-2/5.3.3.

The manufacturer is allowed to affix the U.S. Coast Guard approval number 164.112/1121/WCL MED0401 as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004.



Paul Duggan
Manager
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WCL EC Distinguishing No. 1121

Certificate No. 164.112/1121/WCL MED0401QA

Description of Product as Prototype Tested:

The product is constructed as described in the test reports referenced in the following certificate.

EC Type-Examination Certificate No.	Notified Body	Date of Issue
164.112/1121/WCL MED0401TE	Warrington Certification Limited	28 th May 2014

Regulation No	Testing Standard	Result	Date
II-2/3.40.6, II- 2/9.2.2.3.2 and II-2/5.3.3 IMO MSC/Circ.1120,	IMO Resolution MSC 61(67), Annex 1: Part 5 and Annex 2	Pass	WF 153802, dated 24/04/06
	IMO Resolution MSC 61(67), Annex 1: Part 2 and Annex 2		WF 153924, dated 12/05/06

Marking & Identification affixed to the product:

Manufacturer Name	F Ball and Co. Ltd.
Manufacturer Address	Station Road, Cheddleton, Leek, Staffordshire, ST13 7RS, UK
Product Reference	"Styccobond F46"
Approved Authority	Warrington Certification Limited

Warrington Certification Limited
Holmesfield Road
Warrington WA1 2DS

**Warrington Certification Limited
WCL EC Distinguishing No. 1121**